

Rec'd PCT/PTO US SEP 2004
10/506647

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number
WO 2003/075835 A3

- (51) International Patent Classification⁷: A61K 38/00, G01N 33/53
- (21) International Application Number: PCT/US2003/006089
- (22) International Filing Date: 28 February 2003 (28.02.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/361,906 4 March 2002 (04.03.2002) US
- (71) Applicant (*for all designated States except US*): SMITHKLINE BEECHAM CORPORATION [US/US]; One Franklin Plaza, Philadelphia, PA 19101 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): MAGLICH, Jodi, Marie [US/US]; GlaxoSmithKline, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709 (US). MOORE, John, Tomlin [US/US]; GlaxoSmithKline, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709 (US).
- (74) Agents: LEVY, David, J et al.; GlaxoSmithKline, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
15 April 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2003/075835 A3

(54) Title: COMPOSITIONS AND METHODS FOR REGULATING THYROID HORMONE METABOLISM AND CHOLESTEROL AND LIPID METABOLISM VIA THE NUCLEAR RECEPTOR CAR

(57) Abstract: Methods for identifying agents which alter thyroid hormone metabolism or cholesterol and lipid metabolism by modulating expression and/or activity of the nuclear receptor CAR are provided. Also provided are compositions containing such agents and methods of using such agents to alter thyroid hormone metabolism or cholesterol and lipid metabolism in a subject. Administration of such agents is useful in the treatment of conditions such as obesity, cholesterolemia and dyslipidemia